

FORM PTO-1390 (REV 5-93)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				R0108T
INTERNATIONAL APPLICATION NO. PCT/JP00/01935		INTERNATIONAL FILING DATE March 29, 2000		U.S. APPLICATION NO. (If known, see 37 CFR 1.51) N/A 09/980623
TITLE OF INVENTION HEAT EXCHANGER				PRIORITY DATE CLAIMED July 19, 1999
APPLICANT(S) FOR DO/EO/US Muneo SAKURADA and Soichi KATO				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
1.	<input checked="" type="checkbox"/>	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.		
2.	<input type="checkbox"/>	This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.		
3.	<input checked="" type="checkbox"/>	This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).		
4.	<input checked="" type="checkbox"/>	A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.		
5.	<input checked="" type="checkbox"/>	A copy of the International Application as filed (35 U.S.C. 371(c)(2))		
	a.	<input type="checkbox"/>	is transmitted herewith (required only if not transmitted by the International Bureau).	
	b.	<input checked="" type="checkbox"/>	has been transmitted by the International Bureau.	
	c.	<input type="checkbox"/>	is not required, as the application was filed in the United States Receiving Office (RO/US)	
6.	<input checked="" type="checkbox"/>	A translation of the International Application into English (35 U.S.C. 371(c)(2)).		
	<input type="checkbox"/>	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))		
	a.	<input type="checkbox"/>	are transmitted herewith (required only if not transmitted by the International Bureau).	
	b.	<input type="checkbox"/>	have been transmitted by the International Bureau.	
	c.	<input type="checkbox"/>	have not been made; however, the time limit for making such amendments has NOT expired.	
	d.	<input type="checkbox"/>	have not been made and will not be made.	
8.	<input type="checkbox"/>	A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).		
9.	<input checked="" type="checkbox"/>	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).		
10.	<input type="checkbox"/>	A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
Items 11. to 16. below concern other document(s) or information included:				
11.	<input type="checkbox"/>	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.		
12.	<input checked="" type="checkbox"/>	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.		
13.	<input checked="" type="checkbox"/>	A FIRST preliminary amendment.		
	<input type="checkbox"/>	A SECOND or SUBSEQUENT preliminary amendment.		
14.	<input type="checkbox"/>	A substitute specification.		
15.	<input type="checkbox"/>	A change of power of attorney and/or address letter.		
16.	<input type="checkbox"/>	Other items or information:		

APPLICATION NO. (U.S. Patent No. 37 CFR 1.53) N 09/980623	INTERNATIONAL APPLICATION NO. PCT/JP00/01935	ATTORNEY'S DOCKET NUMBER R0108T
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17. ☒ The following fees are submitted:

Basic National Fee (37 CFR 1.492(a)(1)-(5)):
 Search Report has been prepared by the EPO or JPO..... \$830.00

International preliminary examination fee paid to USPTO (37 CFR 1.482)
 \$640.00

No international preliminary examination fee paid to USPTO (37 CFR 1.482)
 but international search fee paid to USPTO (37 CFR 1.445(a)(2)).. \$710.00

Neither international preliminary examination fee (37 CFR 1.482) nor
 international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$950.00

International preliminary examination fee paid to USPTO (37 CFR 1.482)
 and all claims satisfied provisions of PCT Article 33(2)-(4)..... \$90.00

CALCULATIONS	PTO USE ONLY
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ENTER APPROPRIATE BASIC FEE AMOUNT =

\$ 890	
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Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30
 months from the earliest claimed priority date (37 CFR 1.492(e)).

\$	
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Claims	Number Filed	Number Extra	Rate		
Total Claims	10 -20 =	0	X \$22.00	\$	0
Independent Claims	1 -3 =	0	X \$74.00	\$	0
Multiple dependent claims(s) (if applicable)			+ \$230.00	\$	0

TOTAL OF ABOVE CALCULATIONS =

\$ 0	
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Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement
 must also be filed. (Note 37 CFR 1.9, 1.27, 1.28).

\$	
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SUBTOTAL =

\$	
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Processing fee of \$130.00 for furnishing the English translation later the ☐ 20 ☐ 30
 months from the earliest claimed priority date (37 CFR 1.492(f)).

\$	
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TOTAL NATIONAL FEE =

\$ 890	
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be
 accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +

\$ 40	
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TOTAL FEES ENCLOSED =

\$ 930	
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Amount to be:	
refunded	\$
charged	\$

- a. ☒ A check in the amount of \$ 930 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
 A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any
 overpayment to Deposit Account No. 20-0060. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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SIGNATURE

Yusuke Takeuchi

NAME

30,921

REGISTRATION NUMBER

Y. Takeuchi

09/980623

JC03 Rec'd PCT/PTO 05 DEC 2001

The PTO did not receive the following
listed item(s)

NO POST CARD